

**Table 10.24 Reasons that Made Distillate Fuel Oil Unswitchable, 2006;****Level: National Data;****Row: NAICS Codes;****Column: Reasons that Made Quantity Unswitchable;****Unit: Million barrels.**

Reasons that Made Distillate Fuel Oil Unswitchable												
NAICS Code(a)	Subsector and Industry	Total Amount of Distillate Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Distillate Fuel Oil Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products	Unavailable Alternative Fuel Supply	Environmental Restrictions(b)	Long-Term Contract in Place(c)	Unavailable Storage for Alternative Fuels(d)	Another Reason	Combinations of Columns F, G, H, I, J, and K	Don't Know
Total United States												
311	Food	2,723	2,141	1,595	10	Q	1	Q	20	0	0	287
3112	Grain and Oilseed Milling	153	144	134	1	0	0	Q	0	0	0	7
311221	Wet Corn Milling	32	31	24	1	0	0	0	0	0	0	6
31131	Sugar Manufacturing	148	116	68	9	0	0	0	0	0	0	38
3114	Fruit and Vegetable Preserving and Specialty Foods	210	43	42	0	0	0	0	*	0	0	*
3115	Dairy Products	235	229	226	0	0	1	0	0	0	0	Q
3116	Animal Slaughtering and Processing	789	618	435	0	7	0	0	20	0	0	Q
312	Beverage and Tobacco Products	204	104	59	*	33	*	0	Q	0	Q	*
3121	Beverages	171	75	42	*	21	*	0	Q	0	Q	*
3122	Tobacco	33	29	17	0	12	0	0	0	0	0	0
313	Textile Mills	43	Q	Q	0	0	Q	0	0	0	0	0
314	Textile Product Mills	36	31	29	0	1	0	0	0	0	0	0
315	Apparel	7	0	0	0	0	0	0	0	0	0	0
316	Leather and Allied Products	10	Q	Q	0	0	0	0	0	0	0	0
321	Wood Products	2,635	2,167	1,913	24	27	8	1	4	0	0	190
321113	Sawmills	1,422	1,126	976	10	25	0	0	4	0	0	110
3212	Veneer, Plywood, and Engineered Woods	234	194	169	Q	0	5	0	0	0	0	13
3219	Other Wood Products	775	718	675	Q	Q	Q	1	0	0	0	32
322	Paper	2,181	881	847	0	2	4	0	0	0	0	29
322110	Pulp Mills	648	44	44	0	0	0	0	0	0	0	0
322121	Paper Mills, except Newsprint	372	262	238	0	2	*	0	0	0	0	21
322122	Newsprint Mills	20	14	14	0	0	0	0	0	0	0	0
322130	Paperboard Mills	1,054	482	471	0	1	3	0	0	0	0	7
323	Printing and Related Support	Q	3	3	0	0	0	0	0	0	0	0
324	Petroleum and Coal Products	4,275	2,760	2,530	1	1	Q	0	0	0	0	Q
324110	Petroleum Refineries	1,387	839	805	0	1	0	0	0	0	0	32
324199	Other Petroleum and Coal Products	30	23	18	1	0	0	0	0	0	0	4
325	Chemicals	1,616	1,211	930	1	Q	26	0	*	0	7	Q
325110	Petrochemicals	103	103	103	0	0	0	0	0	0	0	0
325120	Industrial Gases	6	6	6	0	0	0	0	0	0	0	*
325181	Alkalies and Chlorine	15	12	11	0	0	0	0	0	0	0	1
325182	Carbon Black	1	*	*	0	0	0	0	0	0	0	0
325188	Other Basic Inorganic Chemicals	178	94	91	*	0	0	0	*	0	1	1
325192	Cyclic Crudes and Intermediates	18	6	6	0	0	1	0	*	0	0	*
325193	Ethyl Alcohol	11	4	4	0	0	0	0	0	0	1	*
325199	Other Basic Organic Chemicals	387	272	250	*	Q	*	0	0	0	3	3
325211	Plastics Materials and Resins	226	Q	50	0	0	0	0	*	0	0	Q
325212	Synthetic Rubber	59	6	5	0	1	0	0	0	0	0	0
325222	Noncellulosic Organic Fibers	23	17	17	0	0	0	0	0	0	0	0
325311	Nitrogenous Fertilizers	24	23	9	*	1	12	0	0	0	0	0
325312	Phosphatic Fertilizers	129	129	117	0	0	0	0	0	0	0	11
3254	Pharmaceuticals and Medicines	198	179	178	0	0	*	0	0	0	0	2
325412	Pharmaceutical Preparation	175	160	159	0	0	*	0	0	0	0	1
325992	Photographic Film, Paper, Plate, and Chemicals	11	10	8	0	0	0	0	0	0	2	0
326	Plastics and Rubber Products	540	Q	Q	Q	0	0	0	0	0	Q	0
327	Nonmetallic Mineral Products	5,150	4,141	3,795	*	Q	7	*	0	0	Q	250
327211	Flat Glass	10	9	9	*	0	0	0	0	0	0	*
327212	Other Pressed and Blown Glass and Glassware	12	6	5	0	0	0	0	0	0	0	1
327213	Glass Containers	15	15	15	0	0	0	0	0	0	0	0
327215	Glass Products from Purchased Glass	Q	Q	Q	0	*	0	0	0	0	0	0
327310	Cements	596	409	371	0	1	7	0	0	0	0	30
327410	Lime	224	190	179	0	0	0	0	0	0	0	11
327420	Gypsum	115	104	104	0	0	0	0	0	0	0	0
327993	Mineral Wool	5	4	3	0	0	0	*	0	0	0	*
331	Primary Metals	1,016	780	563	34	Q	6	2	2	0	4	161
331111	Iron and Steel Mills	529	458	319	10	0	0	2	0	0	0	127
331112	Electrometallurgical Ferroalloy Products	17	9	9	0	0	0	0	0	0	0	0
3312	Steel Products from Purchased Steel	46	18	15	0	0	0	0	0	0	0	3
3313	Alumina and Aluminum	136	89	76	4	*	0	0	1	0	3	5
331314	Secondary Smelting and Alloying of Aluminum	37	32	23	4	0	0	0	1	0	0	4
331315	Aluminum Sheet, Plate and Foils	58	22	18	0	*	0	0	*	0	3	1
331316	Aluminum Extruded Products	12	12	11	0	0	0	0	*	0	0	*

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NAICS Code(a)	Subsector and Industry	Total Amount of Distillate Fuel Oil Consumed as a Fuel	Total Amount of Unswitchable Distillate Fuel Oil Fuel Use	Equipment is Not Capable of Using Another Fuel	Switching Adversely Affects the Products	Unavailable Alternative Fuel Supply	Environmental Restrictions(b)	Long-Term Contract in Place(c)	Unavailable Storage for Alternative Fuels(d)	Another Reason	Combinations of Columns F, G, H, I, J, and K	Don't Know	
3314	Nonferrous Metals, except Aluminum	96	87	57	0	Q	0	0	0	0	1	21	
3315	Foundries	193	119	88	20	*	6	*	0	0	0	6	
331511	Iron Foundries	100	84	58	20	0	6	0	0	0	0	2	
331521	Aluminum Die-Casting Foundries	45	*	*	0	0	0	0	0	0	0	0	
331524	Aluminum Foundries, except Die-Casting	10	3	2	0	0	0	*	*	0	0	*	
332	Fabricated Metal Products	410	295	272	0	Q	0	0	0	0	*	Q	
333	Machinery	274	184	181	Q	0	0	0	0	0	*	*	
334	Computer and Electronic Products	155	63	61	0	*	*	0	0	0	0	Q	
334413	Semiconductors and Related Devices	19	5	5	0	*	*	0	0	0	0	*	
335	Electrical Equip., Appliances, and Components	Q	Q	Q	*	0	0	0	0	0	0	*	
336	Transportation Equipment	488	198	162	Q	15	*	Q	*	0	4	9	
336111	Automobiles	4	2	1	0	0	0	0	0	0	0	*	
336112	Light Trucks and Utility Vehicles	5	3	3	0	0	0	0	*	0	*	0	
3364	Aerospace Product and Parts	98	82	66	0	8	0	0	0	0	4	4	
336411	Aircraft	22	21	11	0	5	0	0	0	0	1	4	
337	Furniture and Related Products	Q	Q	Q	0	0	0	0	0	0	0	1	
339	Miscellaneous	28	9	Q	0	*	0	0	0	0	0	Q	
	Total	22,139	15,529	13,252	107	349	Q	9	37	0	Q	1,284	

(a) The Bureau of the Census classifies establishments using the North American Industry Classification System (NAICS).

(b) The environmental restrictions related to air quality that limit the amount of the usable alternative fuel that could be used instead.

(c) Long-term contracts are typically with a utility or third-party supplier such as an energy broker and requires the purchase of a fuel for an extended amount of time.

(d) The storage of usable alternative fuels is not available due to the potential environmental impact of storage tanks.

NF=No applicable RSE row/column factor.

\* Estimate less than 0.5.

W=Withheld to avoid disclosing data for individual establishments.

Q=Withheld because Relative Standard Error is greater than 50 percent.

NA=Not available.

Notes: To obtain the RSE percentage for any table cell, multiply the cell's corresponding RSE column and RSE row factors. Totals may not equal sum of components because of independent rounding. Establishment percents may not equal 100 percent because of unknown and/or unreported fuel-switching guesstimate.

Source: Energy Information Administration, Office of Energy Markets and End Use, Energy Consumption Division, Form EIA-846, '2006 Manufacturing Energy Consumption Survey.'